

CLIMATOLOGICAL DATA FOR MAY, 1913.

DISTRICT NO. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

May, 1913, was nearly normal in temperature and precipitation. It was somewhat warmer than May, 1912, but with slightly less rain. The precipitation was not sufficient for the general need of the State, and, on the other hand, there were no floods or heavy run-offs due to melting of the snow by warm rains. No water has therefore been wasted, and the distribution of the rain with regard to time and locality has been favorable, coming when most needed. There were three rainy periods during the month, from the 8th to 12th, from 17th to 19th, and from 27th to 29th. The precipitation was comparatively light in the mountain sections and the snow that fell did not remain long.

Regarding the season as a whole it can now be said that the water supply is deficient, and there will probably be need of water in certain localities before the end of summer.

Compared with other Mays there was less northwest wind than usual, and while there were some periods when the afternoon winds exceeded 40 miles an hour there were no extended periods, and few records of maximum velocities exceeding 60 miles. The most important disturbance of the month occurred on the 27th, when a well-marked depression over the Great Basin was accompanied by thunderstorms in the Sierra and showers in the foothills and valleys.

There were very few frosts and practically no damage. From an agricultural point of view the weather of May was favorable and all crops made good growth, except in those sections where early rains had been insufficient.

TEMPERATURE.

The mean temperature for the State was 0.2° above the normal. The following table gives the means and departures for each May from 1897 to 1913, inclusive:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	° F.	° F.		° F.	° F.
1897	66.9	+4.8	1906	59.8	-2.3
1898	61.3	-0.8	1907	61.5	-0.6
1899	59.9	-2.2	1908	58.0	-4.1
1900	64.0	+1.9	1909	60.4	-1.7
1901	62.0	-0.1	1910	65.5	+3.4
1902	60.8	-1.3	1911	58.3	-3.8
1903	63.5	+1.4	1912	60.7	-1.4
1904	64.9	+2.8	1913	62.3	+0.2
1905	59.6	-2.5			

The highest temperature recorded was 120° at Greenland Ranch, in Death Valley, on the 25th. This was 12° higher than the highest recorded during May, 1912, and 16° higher than the highest recorded during May, 1911, but 1° lower than the temperature recorded at several stations in California during May, 1910. The lowest tem-

perature was 12° at Summit, Placer County, on the 1st. This was 4° warmer than the lowest temperature during May, 1912.

PRECIPITATION.

The precipitation was slightly below normal. The following table gives the average precipitation and departure from normal for each May from 1897 to 1913, inclusive:

Year.	Mean.	Departure.	Year.	Mean.	Departure.
	Inches.	Inches.		Inches.	Inches.
1897	0.18	-1.04	1906	3.19	+1.97
1898	1.56	+0.34	1907	0.57	-0.65
1899	0.73	-0.49	1908	1.63	+0.41
1900	1.39	+0.17	1909	0.23	-0.99
1901	1.03	-0.19	1910	0.18	-1.04
1902	0.84	-0.38	1911	0.72	-0.50
1903	0.14	-1.08	1912	1.92	+0.70
1904	0.22	-1.00	1913	1.04	-0.18
1905	2.18	+0.96			

The greatest monthly precipitation was 4.19 inches at Blue Canon, and there was no rainfall at 21 stations. The greatest 24-hour rainfall was 1.83 inches at Dunlap.

*Snowfall.*—May was a month of light snowfall. The greatest depths were 5 inches at Tamarack and Summit. The snow disappeared from the mountains early and was practically gone by the middle of the month. This resulted in an early travel season in the mountains, and passes not usually free from snow until after the middle of June were accessible by the end of May.

The following table shows the depth of snow on the ground at Summit on given dates in May during the period 1907 to 1913:

	May 1.	May 15.	May 31.
	Inches.	Inches.	Inches.
1907	115	121	71
1908	20	42	16
1909	119	66	33
1910	13	12	3
1911	94	65	37
1912	36	13	6
1913	23	Patches.	0

SUNSHINE.

The following table gives the hours of sunshine and percentages of the possible:

Stations.	Hours.	Percentage of possible.	Stations.	Hours.	Percentage of possible.
Eureka	261	58	Sacramento	358	81
Fresno	396	90	San Diego	268	62
Los Angeles	284	66	San Francisco	281	64
Mount Tamalpais	354	80	San Jose	357	81
Red Bluff	355	80	San Luis Obispo	305	70

There was more sunshine than during May, 1912.

TABLE 1.—Climatological data for May, 1913. District No. 11, California.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Sky, Prevailing wind direction, Observers. Rows include Oregon (Klamath Agency, Klamath Falls, Lakeview, Merrill, Yonna) and California (Alturas, Angiola, Antioch, Aptos, Arrowhead Springs, Auburn, Avalon, Azusa, Bagdad, Bakersfield, Barstow, Berkeley, Bettelavia, Bishop, Bishop Creek, Blocksburg, Blue Canon, Blythe, Branscomb, Brawley, Burney, Cahulla, Calexico, Caliente, Calistoga, Campbell, Camptonville, Cedarville, Chico, China Flat, Chino, Cisco, Claremont, Cloverdale, Colunga, Colfax, Colusa, Corning, Cuyamaca, Davisville, Deer Creek, Del Monte, Delta, Denair, De Saba, Dobbins (near), Downieville, Dudley, Dudleys, Dunlap, Dunnigan, Dunsuir, Durham, El Cajon, Electra, Emigrant Gap, Escondido, Eureka, Farmington, Folsom, Fordyce Dam, Fort Bidwell, Fouts Springs, Fresno, Galt, Georgetown, Gilroy, Gilta, Glennville, Gold Run, Gonzales, Grass Valley, Greenland Ranch, Greenville, Groveland, Guinda, Hanford, Healdsburg, Hearst, Heber, Hetch Hetchy, Hollister, Hornbrook, Hot Springs, Hullville, Independence, Indian Wells).

TABLE 1.—Climatological data for May, 1913. District No. 11—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, unmetted), Sky (Number of rainy days, Number of clear days, Number of partly cloudy days, Number of overcast days), Prevailing wind direction, Observers.

TABLE 1.—Climatological data for May, 1913. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		Number of cloudy days.	Prevailing wind direction.
<i>California—Continued.</i>																				
Seven Oaks	San Bernardino	5,000	3	54.0		76	16†	28	2	36	0.38		0.38	0	1	22	0	9	w.	M. Lewis.
Sierra Madre	Los Angeles	1,400	16	62.2	+ 1.1	82	23	45	2	32	0.35	- 0.85	0.26	0	2	20	6	5	s.	Mrs. A. E. Gregory.
Sierraville	Sierra	5,000	3	48.0		79	21	18	2	50	1.02		0.52	0	5	15	9	7	sw.	C. D. Johnson.
Sisson	Siskiyou	3,555	24	52.6	- 2.0	80	25†	29	14	37	2.38	+ 0.14	1.04	0	7	19	9	3	n.	Southern Pacific Co.
Soledad**	Monterey	188	39	68.1	+ 3.8	80	11†	60	13†		0.72	+ 0.43	0.72	0	2	19	7	5	n.	Do.
Sonora	Tuolumne	1,825	2	62.4		90	26	36	2	38	2.25	+ 0.27	1.46	0	4	23	4	4	nw.	Chas. P. Jones.
Southeast Farallon	San Francisco	30	10	52.0	0.0	58	10	48	4	7	0.96	+ 0.45	0.79	0	4	12	5	14	nw.	U. S. Weather Bureau.
Springville	Tulare	4,000	6	57.4		88	25	33	7	45	1.82		1.70	0	2	22	0	9	n.	D. L. Wishon.
Squirrel Inn	San Bernardino	5,280	3	52.7		77	23	29	1	31	1.35		1.35	0	1	22	5	4	sw.	A. D. Frantz.
Stanwood	Butte	2,140	9																	Cal. Gas & Electric Co.
Stirling City	do	3,625	9	58.2		92	26	38	14	40	3.30		1.45	0	8	15	8	8	se.	Butte County R. R. Co.
Stockton (S. H.)	San Joaquin	23	42	65.1	+ 1.0	93	30	42	2	43	0.70	+ 0.03	0.44	0	3	24	6	1	nw.	State Hospital.
Storey	Madera	296	13	65.2	+ 0.8	97	25	34	1	42	0.40	- 0.12	0.40	0	1	28	0	3	nw.	Santa Fe Co.
Sulsun	Solano	20	33	64.2	+ 0.4	88	3	40	30		0.51	- 0.32	0.35	0	3	23	1	7	sw.	Southern Pacific Co.
Sulphur Banks	Lake	1,350	1	60.8		90	30†	40	1†	39	0.72		0.45	0	6	20	7	4	w.	L. S. Lorenzen.
Summit	Placer	7,017	40	43.7	+ 1.1	69	25†	12	1	29	0.75	- 1.38	0.25	5.0	4	11	2	18	s.	Southern Pacific Co.
Susanville	Lassen	4,175	24																	C. M. Penry
Tamarack	Alpine	8,000	7	37.9		64	26	20	1†	35	0.95	- 1.86	0.45	5.0	3	21	7	3	sw.	Cal. Gas & Electric Co.
Tehachapi**	Kern	3,964	36																	Southern Pacific Co.
Tehama	Tehama	220	42	75.5	+ 6.6	99	30†	50	1†		0.60	- 0.30	0.21	0	4	22	1	8	n.	Do.
Tejon Rancho	Kern	1,500	10																	S. E. Bailey.
Three Rivers	Tulare	870	3	66.0		96	24	31	1	46	1.65		1.65	0	1	14	15	2	sw.	J. H. Pierce.
Towle	Placer	3,704	27	59.2	+ 2.9	84	25	36	14	31	2.47	+ 0.44	1.40	0	4	23	2	6	ne.	Southern Pacific Co.
Tracy**	San Joaquin	64	33	72.6	+ 3.5	92	25	50	1		0.53	+ 0.07	0.33	0	3					Do.
Ukiah	Mendocino	620	20	60.7	+ 1.5	95	31	31	1	48	1.57	+ 0.31	0.66	0	7	21	8	2	nw.	Dr. Geo. McCowen.
Upper Lake	Lake	1,350	28	59.5	0.0	93	23	29	1	46	1.33	+ 0.20	0.81	0	7	21	4	6	nw.	C. M. Hammond.
Yacaville	Solano	175	25	65.6	+ 1.4	98	30	36	2	49	0.41	- 0.92	0.30	0	4	16	11	4	sw.	G. O. Coburn.
Valley Springs**	Calaveras	673	24	69.4	+ 3.2	97	25	55	1		1.45	+ 0.10	0.82	0	4	24	4	3	nw.	Southern Pacific Co.
Visalia	Tulare	334	25	67.1	+ 1.0	89	27	47	8†	36	0.89	+ 0.31	0.89	0	1	26	5	0	nw.	Santa Fe Co.
Warner Springs	San Diego	3,165	5	58.8		86	25	28	1	41	0.08		0.07	0	2	24	7	0		Mrs. F. S. Sandford.
Wasco	Kern	336	13																	Santa Fe Co.
Watsonville	Santa Cruz	23	17	58.4	- 1.7	83	30	30	2	45	0.66	- 0.21	0.52	0	3	8	19	4	w.	Spreckels Sugar Co.
Weaverville	Trinity	2,162	1	58.3		89	31	24	1	49	1.43	- 0.45	0.51	0	9	22	3	6		U. S. Forest Service.
Weitchpec	Humboldt	1,700	3	56.0		90	31	30	1	42	2.82		1.03	0	7	22	4	5	w.	M. E. Lathrop.
Westley	Stanislaus	90	24	74.5	+ 4.4	95	25†	59	1		0.52	- 0.07	0.42	0	2	27	0	4	n.	Southern Pacific Co.
Wheatland	Yuba	84	26	65.8	+ 1.7	94	31	40	1†	37	0.92	- 0.36	0.37	0	5	17	7	7	s.	Wm. Lumbard.
Willows	Glenn	136	34	68.1	- 0.4	99	31	41	14	41	1.23	+ 0.51	0.79	0	6	23	3	5	se.	E. C. Mills.
Yorba Linda	Orange			62.0		83	25	40	1	37	0.16		0.16	0	1	21	5	5	w.	S. J. Walker.
Yosemite	Mariposa	3,945	9	51.2		90	25	15	1†	64	1.96		1.20	1.0	3	21	3	7	s.	J. P. Kelly.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.  
 \*\*Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.  
 † Also on other dates.  
 T. Precipitation is less than 0.01 inch rain or melted snow.





TABLE 2.—Daily precipitation for May, 1913. District No. 11—Continued.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>California—Contd.</i>																																		
Montgomery Creek	Sacramento								.84			.67						2.00										.25						3.76
Mount Tamalpais	Coast						.02	.20	.07	.01		.01						.06									.10	.59	.02				1.08	
Mount St. Helena	do																																	0.60
Napa City	do						.04	.18										T.	.10									.20	.08				0.55	
Napa (S. H.)	do						.18											.05										.30					0.00	
Needles	Desert																																1.20	
Nellie	Coast																																2.59	
Nevada City	Sacramento						T.	1.07	.01			T.						.32	.10	.02								.05	1.01	.01	T.		1.80	
Nevis	do							.43	.15	.05	.25						.58	.10											.24				0.00	
Newhall	Coast																																0.78	
Newman	San Joaquin																	.06															3.10	
North Bloomfield	Sacramento						1.60										.55	T.	.15									T.	.80				1.80	
North Fork	San Joaquin																		.18														1.51	
North Lakeport	Coast							.22		.11							.16											1.10	.84				1.33	
Oakdale	San Joaquin								.03																								0.43	
Oak Grove	Coast																																0.10	
Oakland	do						.04	.11									.07	.05											.03	.07			0.55	
Oakville	do								.32				.10																				0.98	
Oceanside	do																		T.	T.							.03	.06	.05				0.16	
Ojai Valley	do																																0.13	
Orland	Sacramento						.05	.09		.08	.02					.10		.01											.42				0.77	
Orleans	Klamath						.03	.32	.22	.48	.71																	.13	.12				2.05	
Oroville (near)	Sacramento							.42			T.							.15	.17										.70	.06			1.50	
Ozena	Coast																																0.00	
Palermo	Sacramento								.45																				.50	1.00			1.95	
Palm Springs	Desert																																0.00	
Parkfield	Coast									.03																			.28				0.31	
Pasadena	do																											.01	.04	.08			0.13	
Paso Robles	do																																0.16	
Peachland	do						T.	.46	.13	.08								.18											.61				1.46	
Petaluma	do							.04	.16								.07												.40	.02			0.69	
Phoenix Dam	San Joaquin																				.23				.04							.14	0.41	
Pilot Creek	Sacramento																																	
Pinchot	Coast																																	
Pine Crest	do																																	
Placerville	Sacramento								1.20	.12										T.								T.	.23	.21				0.44
Point Lobos	Coast								.08	.18									.04	.08								.01	.26	.02				2.42
Point Loma	do											.01																	.01	.01	.02	.13		0.67
Point Reyes	do																																	0.18
Pomona	do					.01	T.		.16										.06	.08									.52	.11	.03		0.83	
Porterville	San Joaquin																																	0.14
Priest Valley	Coast																																	0.95
Quincy	Sacramento																																	0.51
Red Bluff	do							.21		.03		.15						.60	.10	.05														0.75
Redding	do							.21	.40	.16	.27	T.																						0.95
Redlands	Coast																												.40	.03				1.48
Reedley	San Joaquin																																	0.30
Repressa	Sacramento							.58											.12															0.83
Rialto (near)	Coast																																	1.08
Rio Vista	Sacramento								.07																			.27	.02	.03	.36			0.68
Riverside	Coast																																	0.51
Rocklin	Sacramento									.46																								0.30
Rohnerville	Coast							.14	.36	.24	T.	.68																						0.98
Ruth	do							.20	.29	.63	.01	.31																						1.67
Sacramento	Sacramento							.06	.04																									1.75
St. Helena	Coast						.03	.40	.02	.09									.07	.13														0.01
Salinas	do								.09																									0.51
San Bernardino	do																																	0.94
San Diego	do																																	0.75
San Francisco	do																																	0.48
San Jacinto	do						T.		.15	.09																								0.07
San Jose	do							.04										.13	T.															0.43
San Luis Obispo	do								.04				T.					.06																0.00
San Mateo	do							.18	.03																									0.77
San Miguel	do																																	0.30
San Miguel Island	do																																	0.74
Sanger	Ocean																																	0.33
Santa Ana River	San Joaquin																																	12.02
Santa Barbara	Coast																																	0.99
Santa Clara	do																																	0.19
Santa Cruz	do																																	0.78
Santa Margarita	do																																	



TABLE 3.—Maximum and minimum temperatures for May, 1913. District No. 11, California.

Date.	California.																												
	Lakeview, Oreg.		Alturas.		Barstow.		Branscomb.		Brawley.		Colusa.		Eureka.		Fresno.		Independence.		Los Angeles.		Mount Tamalpais.		Nevada City.		Porterville.		Red Bluff.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1.....	45	21	51	26	62	40	65	30	75	50	77	39	51	42	70	49	59	33	65	49	56	41	65	25	73	38	66	46	
2.....	54	27	58	29	70	42	70	33	79	49	79	41	54	39	75	46	65	29	66	49	64	47	72	30	80	41	75	51	
3.....	62	27	66	27	76	44	75	38	85	53	81	45	53	46	80	48	73	36	69	50	68	50	76	32	90	46	83	51	
4.....	66	28	73	31	80	40	78	43	89	54	83	47	56	47	87	56	76	42	70	52	75	59	79	37	92	51	88	60	
5.....	73	34	79	32	84	43	77	40	91	58	86	53	52	46	92	55	80	44	73	47	67	54	83	40	96	53	87	55	
6.....	75	38	81	37	86	51	68	39	94	60	84	52	52	46	84	54	80	45	68	51	58	40	79	40	91	55	85	53	
7.....	68	45	76	46	80	42	62	42	92	60	79	49	64	49	74	50	75	44	67	52	47	40	74	38	90	48	72	49	
8.....	68	38	66	33	81	40	60	45	90	50	75	50	63	54	79	51	78	44	69	50	48	45	67	35	84	48	68	52	
9.....	58	38	61	42	81	42	62	45	93	55	75	49	64	53	77	57	78	44	68	52	53	44	64	45	85	55	69	56	
10.....	54	39	59	40	79	46	57	45	95	55	75	50	59	49	76	52	80	43	72	51	55	45	63	41	89	50	69	52	
11.....	56	29	57	30	84	45	59	40	95	55	75	45	59	45	79	50	79	45	75	54	59	43	66	33	88	48	67	46	
12.....	50	36	56	29	80	41	58	35	95	57	70	52	54	42	72	52	76	47	69	51	51	39	63	34	78	46	68	48	
13.....	55	28	60	28	76	48	59	30	89	57	75	44	55	43	77	48	72	41	68	53	59	40	70	31	80	45	74	48	
14.....	63	26	69	27	79	46	63	33	90	59	80	47	57	42	82	49	74	44	71	52	63	47	73	33	85	47	78	49	
15.....	60	40	68	37	84	48	69	35	93	54	82	50	58	52	84	50	81	46	75	50	64	47	75	38	92	49	81	53	
16.....	63	32	71	46	91	49	72	38	96	56	85	63	56	51	90	57	84	52	75	54	70	54	80	41	93	54	85	59	
17.....	63	39	67	45	93	46	62	39	94	61	82	50	61	48	85	60	84	52	70	54	59	46	66	45	92	56	72	62	
18.....	53	31	60	37	83	41	62	46	93	59	75	52	57	49	79	57	73	60	64	56	57	46	63	48	93	50	70	56	
19.....	59	30	68	32	85	45	68	47	89	59	78	49	57	50	78	54	76	42	66	53	62	47	74	36	83	51	81	52	
20.....	63	32	72	37	88	44	70	48	91	56	81	53	57	51	84	55	80	46	66	53	66	52	77	42	88	54	81	59	
21.....	72	35	82	37	93	48	74	48	93	59	86	54	55	50	89	54	85	54	70	54	66	54	79	43	92	53	89	60	
22.....	79	44	84	43	95	52	83	54	95	60	87	60	56	50	93	59	88	54	70	55	71	56	83	44	92	52	89	60	
23.....	75	45	83	45	96	50	82	50	94	60	89	56	56	51	94	60	89	57	76	54	73	56	87	44	96	55	93	61	
24.....	74	46	82	47	98	52	80	50	97	65	91	57	58	50	96	60	89	57	76	55	70	60	87	44	100	66	93	67	
25.....	77	41	85	41	96	50	80	44	96	61	90	57	59	49	98	61	89	56	68	56	74	62	88	45	97	64	95	64	
26.....	81	44	87	42	91	51	63	43	92	60	89	58	58	50	98	62	84	55	64	55	70	46	88	46	98	61	93	62	
27.....	74	46	81	40	84	48	56	43	77	62	82	55	56	50	74	54	79	51	64	55	47	42	59	46	79	56	67	55	
28.....	55	44	55	45	74	44	64	40	85	54	84	53	56	50	66	51	59	43	66	53	55	42	53	43	63	50	73	55	
29.....	68	33	71	37	80	46	78	42	92	57	86	53	55	45	73	54	74	46	68	53	71	48	76	39	73	58	87	59	
30.....	74	41	80	44	83	48	90	45	91	60	92	62	59	45	87	58	74	48	72	52	78	63	83	45	83	62	94	70	
31.....	77	47	85	45	90	51	86	47	93	56	93	63	60	49	91	66	72	45	66	55	75	60	86	52	92	61	96	66	
Mns.....	65.0	36.3	70.7	37.3	84.0	45.9	69.4	41.8	90.7	57.4	82.2	51.9	57.0	47.8	82.7	54.2	77.6	46.8	69.2	52.6	62.9	49.1	74.2	39.8	87.3	52.4	80.3	56.0	

Date.	California.																										
	Redlands.		Sacramento.		San Diego.		San Francisco.		San Jose.		San Luis Obispo.		Santa Barbara.		Santa Rosa.		Sisson.		Stockton.		Summit.		Susanville.		Yosemite.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1.....	66	38	67	48	63	49	62	50	67	36	62	38	65	45	65	34	49	29	70	43	38	12	.....	.....	63	15	
2.....	70	35	74	47	59	47	68	48	73	37	69	34	60	43	76	33	60	36	75	42	45	22	.....	.....	65	18	
3.....	74	40	82	50	63	49	65	49	81	40	73	36	65	44	80	37	70	37	83	46	52	30	.....	.....	72	15	
4.....	78	42	84	50	63	52	64	49	81	48	66	46	64	48	75	40	75	39	84	49	56	32	.....	.....	84	20	
5.....	85	45	87	50	65	52	58	50	71	47	70	45	62	46	68	50	75	42	83	50	60	33	.....	.....	80	28	
6.....	79	45	73	48	62	55	55	48	67	51	62	45	60	50	63	46	76	43	73	48	60	35	.....	.....	85	30	
7.....	72	43	67	49	63	56	63	52	70	47	65	41	65	44	64	48	62	42	71	45	58	36	.....	.....	84	29	
8.....	74	42	72	51	64	56	65	55	72	52	71	49	65	45	68	48	41	75	49	50	30	.....	.....	76	23		
9.....	76	45	69	56	64	53	64	54	71	58	68	53	69	51	67	49	48	40	72	57	42	28	.....	.....	71	30	
10.....	78	42	70	52	65	56	63	53	70	48	65	52	68	46	67	49	55	29	70	57	42	34	.....	.....	72	28	
11.....	85	45	73	47	68	53	63	51	69	42	77	52	75	48	70	40	54	33	74	47	46	27	.....	.....	71	28	
12.....	75	45	69	49	64	55	60	51	65	46	66	48	75	46	68	40	52	32	70	48	38	27	.....	.....	74	24	
13.....	75	45	74	48	65	53	62	49	70	41	66	48	68	46	71	37	50	32	75	46	50	25	.....	.....	70	16	
14.....	89	45	76	47	65	56	59	49	68	41	68	43	70	46	70	37	57	30	77	49	52	34	.....	.....	71	18	
15.....	84	46	81	49	66	56	60	50	73	43	77	43	67	50	71	40	65	37	80	49	56	30	.....	.....	74	23	
16.....	85	50	87	53	65	55	69	48	80	50	85	47	65	52	84	40	56	36	86	51	58	34	.....	.....	84	22	
17.....	80	45	75	57	63	55	68	51	73	50	65	49	62	53	73	49	65	42	79	56	48	34	.....	.....	80	31	
18.....	74	53	70	52	65	58	63	51	70	54	65	52	60	55	69	40	63	31	72	54	42	34	.....	.....	70	33	
19.....	72	53	77	49	64	58	61	51	71	51	64	51	64	47	71	40	65	38	77	50	52	34	.....	.....	72	22	
20.....	75	53	81	50	64	57	59	50	68	48	62	50	60	46	71	43	68	38	79	50	58	34	.....	.....	75	23	
21.....	80	53	82	50	65	58	57	49	67	48	68	51	62	46	72	42	77	43	81	52	62	38	.....	.....	80	24	
22.....	85	52	88	52	67	59	62	50	75	46	73	45	65	48	75	42	79	48	85	52	65	40	.....	.....	87	32	
23.....	83	55	88	52	67	58	60	49	75	49	73	49	70	51	75	43	77	41	87	51	68	39	.....	.....	85	31	
24.....	82	58	85	53	64	57	59	50	75	49	72	50	64	53	78	44	79	42	89	55	68	40	.....				